

REGISTRATION ARRANGEMENT FOR FUEL CELL ASSEMBLIES

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ABSTRACT OF THE DISCLOSURE

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A registration arrangement for a fuel cell stack assembly incorporates registration posts and registration apertures or recesses. Fuel cell assemblies of the stack may include first and second flow field plates and a membrane electrode assembly (MEA) having an active area. Registration apertures are defined in each of the MEA and the first and second flow field plates. The respective registration apertures are situated within non-active areas of the MEA when the first and second flow field plates and the MEA are in axial alignment. Registration posts are configured for reception within the registration apertures. Each of the registration posts has an outer surface differing in shape from a shape of the inner surface of the registration apertures. The inner surface of the registration apertures contact the outer surface of the registration posts at a plurality of discrete press-fit locations.